





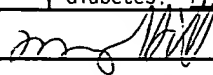
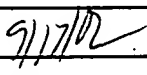
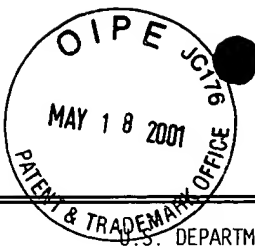
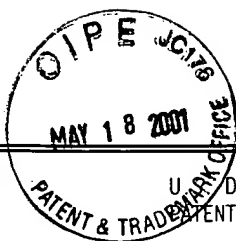
		FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTORNEY DOCKET NO. 12273-3				SERIAL NO.: 09/771,536			
<b>LIST OF ART CITED BY APPLICANT</b> (Use several sheets if necessary)								APPLICANT: Langridge, William H.R. et al.							
								FILING DATE: January 29, 2001							
<b>U.S. PATENT DOCUMENTS</b>															
Examiner Initial		DOCKET NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	AA	4	8	7	9	1	1	3	11/07/1989	Smith	424	88			
	AB	4	9	5	6	2	8	2	09/11/1990	Goodman et al.	435	69.51			
	AC	5	0	7	9	1	6	5	01/07/1992	Clements et al.	435	252.8			
	AC	5	2	6	8	2	7	6	12/07/1993	Holmgren et al.	435	69.1			
	AE	5	3	0	8	8	3	5	05/03/1994	Clements	514	12			
	AF	5	4	8	4	7	1	9	01/16/1996	Lam et al.	435	172.3			
	AG	5	5	8	9	3	8	4	12/31/1996	Lipscombe et al.	435	252.33			
	AH	5	6	1	2	4	8	7	03/18/1997	Lam et al.	800	205			
	AI	5	6	2	8	9	9	4	05/13/1997	Kaper et al.	424	93.2			
	AJ	5	6	5	4	1	8	4	08/05/1997	Curtiss, III et al.	435	172.3			
	AK	5	6	7	9	8	8	0	10/21/1997	Curtiss, III et al.	800	205			
	AL	5	6	8	1	5	7	1	10/28/1997	Holmgren et al.	424	236.1			
	AM	5	6	8	6	0	7	9	11/11/1997	Curtiss, III et al.	424	234			
	AN	5	7	8	9	2	4	5	08/04/1998	Dubensky, Jr. et al.	435	320.1			
<b>FOREIGN PATENT DOCUMENTS</b>															
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	AO	WO	95	0	8	3	4	7	03/30/1995	PCT					
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)</b>															
	AP	Arakawa, T. et al.. "A plant-based cholera toxin B subunit-insulin fusion protein protects against the development of autoimmune diabetes." <u>Nature Biotechnology</u> , 16:934-938, October 1998													
	AQ	Arakawa, T. et al.. "Efficacy of a food plant-based oral cholera toxin B subunit vaccine." <u>Nature Biotechnology</u> , 16:292-297, March 1998													
	AR	Arakawa, T. et al.. "Expression of cholera toxin B-subunit oligomers in transgenic potato plants." <u>Transgenic Research</u> , 6:403-413, 1997													
	AS	Bergerot, I. et al.. "A cholera toxoid-insulin conjugate as an oral vaccine against spontaneous autoimmune diabetes." <u>Proc. Nat'l. Acad. Sci. USA</u> , 94:4610-4614 (April 1997)													
EXAMINER 											DATE CONSIDERED 				
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.															



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<b>LIST OF ART CITED BY APPLICANT</b> (Use several sheets if necessary)						APPLICANT: Langridge, William H.R. et al.								
						FILING DATE: January 29, 2001		GROUP: 1646						
<b>U.S. PATENT DOCUMENTS</b>														
Examiner Initial		DOCKET NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AT	5	8	6	9	0	5	7	02/09/1999	Rock	424	192.1		
	AU	6	0	1	5	6	9	4	12/18/2000	Dubensky, Jr. et al.	435	69.3		
<b>FOREIGN PATENT DOCUMENTS</b>														
		DOCKET NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	AV													
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)</b>														
	AW	De Neve, M. et al., "Gene silencing results in instability of antibody production in transgenic plants, <u>Mol. Gen. Genet.</u> 260:582-592 (1999)												
	AX	Dertzbaugh, M. et al., "Comparative Effectiveness of the Cholera Toxin B Subunit and Alkaline Phosphatase as Carriers for Oral Vaccines," <u>Infection and Immunity</u> , 61(1):48-55 (January 1993)												
	AY	Doherty, P.C. et al., "CD8+ T-cell memory to viruses," <u>Current Opinion in Immunology</u> , 6:545-552 (1994)												
	AZ	Gilbert, S.C. et al., "A protein particle vaccine containing multiple malaria epitopes," <u>Nature Biotechnology</u> , 15:1280-1284 (November 1997)												
	BA	Haq, T. et al., "Oral Immunization with a Recombinant Bacterial Antigen Produced in Transgenic Plants," <u>Science</u> , 268:714-716 (May 1995)												
	BB	Hardy, S.J.S. et al., "Coordinated assembly of multisubunit proteins: Oligomerization of bacterial enterotoxins <i>in vivo</i> and <i>in vitro</i> ," <u>Proc. Natl. Acad. Sci. USA</u> , 85:7109-7113 (October 1988)												
	BC	Hein, M.B. et al., "Expression of Cholera Toxin Subunits in Plants," <u>Annals of New York Academy of Sciences</u> , 792:50-56 (May 1996)												
	BD	Holgren, J. et al., "Strategies for the Induction of Immune Responses at Mucosal Surfaces Making Use of Cholera Toxin B Subunit as Immunogen, Carrier, and Adjuvant," <u>Am. J. Prop. Med. Hyg.</u> , 42-54 (1994)												
	BE	Jackson, Raymond J., "Optimizing Oral Vaccines: Induction of Systemic and Mucosal B-Cell and Antibody Responses to Tetanus Toxoid by use of Cholera Toxin as an Adjuvant," <u>Infection and Immunity</u> , 61(10):4272-4279 (Oct. 1993)												
	BF	Jefferson, Richard et al., "GUS fusions: $\beta$ -glucuronidase as a sensitive and versatile gene fusion marker in higher plants," <u>EMBO Journal</u> , 6(13):3901-3907 (December 1987)												
	BG	Lowe, Keith et al., "Germline Transformation of Maize Following Manipulation of Chimeric Shoot Meristems," <u>Biotechnology</u> , 13:677-682 (July 1995)												
	BH	Ma, S.W., "Transgenic plants expressing autoantigens fed to mice to induce oral immune tolerance," <u>Nature Medicine</u> , 3(7):793-796 (July 1997)												
EXAMINER										DATE CONSIDERED				
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ATTORNEY DOCKET NO.:

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GROUP:

**U.S. PATENT DOCUMENTS**

Examiner Initial		DOCKET NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BI						
	BJ						
	BK						

**FOREIGN PATENT DOCUMENTS**

		DOCKET NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BL							
	BM							
	BN							

**OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)**

W7	BO	McInerney, T.L. et al., "Analysis of the ability of five adjuvants to enhance immune responses to a chimeric plant virus displaying an HIV-1 peptide." <u>Vaccine</u> , 17:1359-1368 (1999)
	BP	Modelska, Anna et al., "Immunization against rabies with plant-derived antigen". <u>Proc. Natl. Acad. Sci. USA</u> , 95:2481-2485 (March 1998)
	BQ	Mowat, A.M., "Oral tolerance therapy- fundamental and practical aspects." <u>Chemistry &amp; Industry</u> , pp. 10-9 (November 1996)
	BR	Nashar, T.O. et al., "Current progress in the development of the B subunits of cholera toxin and Escherichia coli heat-labile enterotoxin as carriers for the oral delivery of heterologous antigens and epitopes." <u>Vaccine</u> , 11(2):235-240 (1993)
	BS	Schon, A. et al., "Thermodynamics of Intersubunit Interactions in Cholera Toxin upon Binding to the Oligosaccharide Portion of Its Cell Surface Receptor, Ganglioside G <sub>M1</sub> ." <u>Biochemistry</u> , 28:5019-5024 (1989)
	BT	Sedlik, C. et al., "Recombinant parvovirus-like particles as an antigen carrier: A novel nonreplicative exogenous antigen to elicit protective antiviral cytotoxic T cells." <u>Proc. Natl. Acad. Sci. USA</u> , 94:7503-7508 (July 1997)
	BU	Simone, E.A. et al., "Immunologic 'Vaccination' for the Prevention of Autoimmune Diabetes (Type 1A)." <u>Diabetes Care</u> , 22(2):B7-B15 (March 1999)
	BV	Spangler, B.D., "Structure and Function of Cholera Toxin and the Related Escherichia coli Heat-Labile Enterotoxin." <u>Microbiological Reviews</u> , 56:(4)622-647 (December 1992)
	BW	Sun, J., et al., "Cholera toxin B subunit: An efficient transmucosal carrier-delivery system for induction of peripheral immunological tolerance." <u>Proc. Natl. Acad. Sci. USA</u> , 91:10795-10799 (November 1994)
	BX	Williams, Neil A. et al., "Immune modulation by the cholera-like enterotoxins: from adjuvant to therapeutic." <u>Immunology Today</u> , (February 1999)

EXAMINER

DATE CONSIDERED

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO. 12273-3

SERIAL NO.:  
09/771.536

## LIST OF ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT: Langridge, William H.R. et al.

FILING DATE: January 29, 2001

GROUP: 1646

## U.S. PATENT DOCUMENTS

Examiner Initial		DOCKET NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MA	AA	5	0	9	8	9	9	8	03/24/1992	Mekalanos et al.	530	350	
	AB	5	6	9	8	4	1	6	12/16/1997	Wolf et al.	435	69.1	
	AC	5	8	9	1	4	3	2	04/06/1999	Hoo	424	93.21	
	AD	5	9	1	7	0	2	6	06/29/1999	Löwenadler et al.	536	23.4	
	AE	6	0	3	0	6	2	4	02/29/2000	Russell et al.	424	200.1	
	AF	6	0	3	6	9	5	3	03/14/2000	Ryan et al.	424	93.2	
	AG	6	1	1	0	7	2	4	08/29/2000	Nakagomi et al.	435	235.1	
	AH	6	1	9	4	5	6	0	02/27/2001	Arntzen et al.	536	23.7	
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## FOREIGN PATENT DOCUMENTS

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	AN	WO	98	2	3	7	6	3	06/04/1998	PCT				
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	AP													
	AQ													
	AR													

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

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	AU	

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<b>LIST OF ART CITED BY APPLICANT</b> (Use several sheets if necessary)		APPLICANT: LANGRIDGE, William H.R. et al.	
		FILING DATE: January 29, 2001	GROUP: 1646

**U.S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

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	AL													
	AM													
	AN													
	AO													
	AP													
	AQ													
	AR													

**OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)**

	AS	Arakawa, T.. "Suppression of Autoimmune Diabetes by a Plant-Delivered Cholera Toxin B Subunit-Human Glutamate Decarboxylase Fusion Protein." Transgenics, 3:51-60 (1999)
	AT	Mason, H.S.. "Transgenic plants as vaccine production systems." Tibtech, 13:388-392 (September 1995)
	AU	

EXAMINER	DATE CONSIDERED 9/17/02
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